

FIGURE 1A

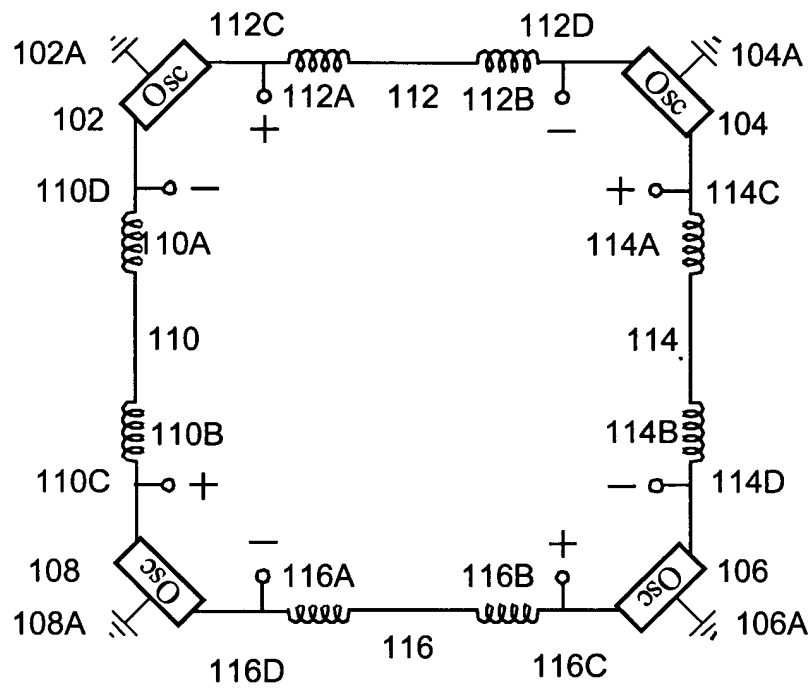
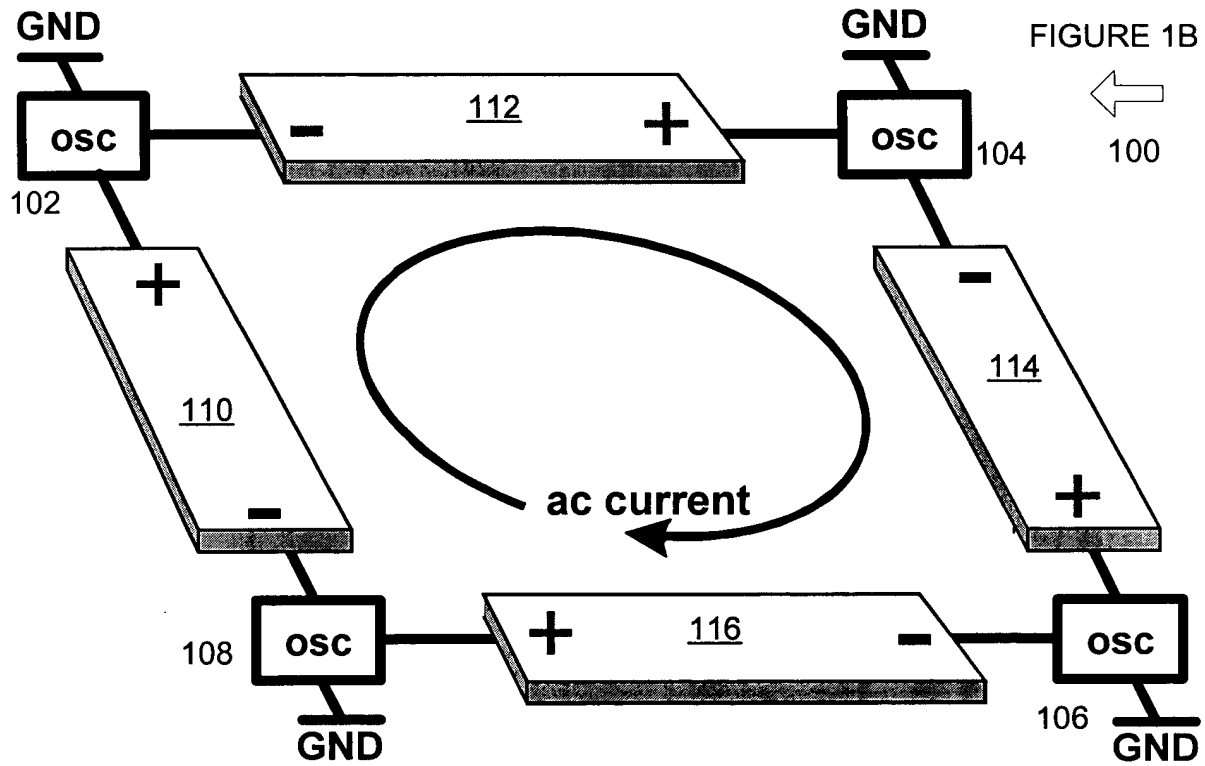
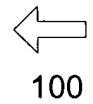


FIGURE 1B



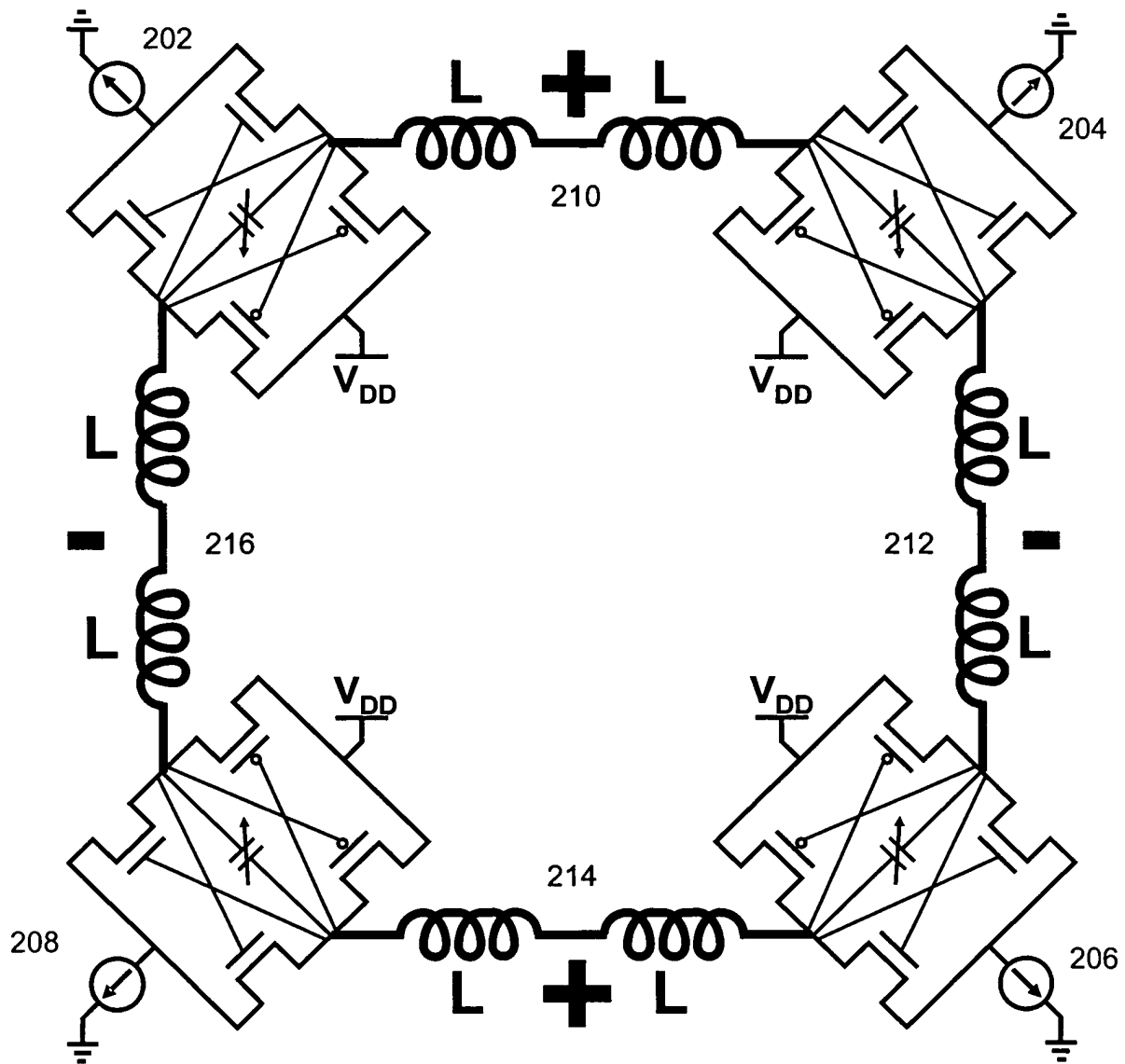
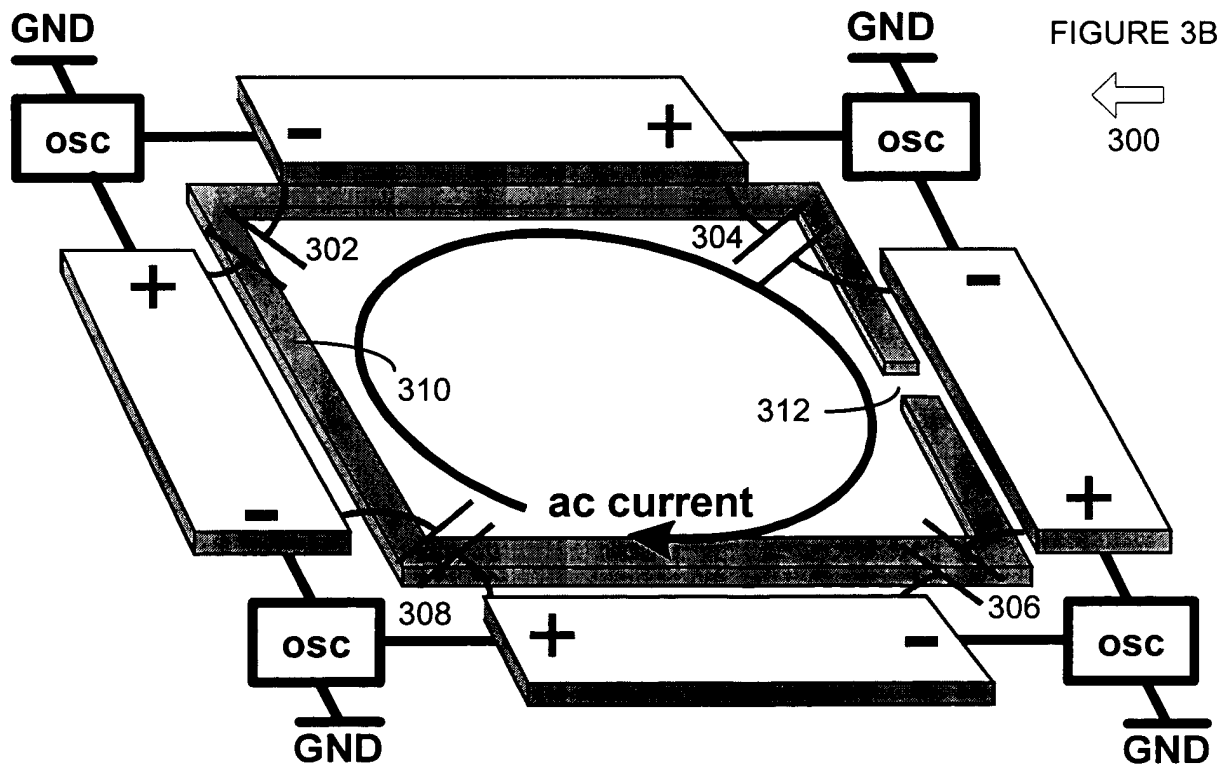
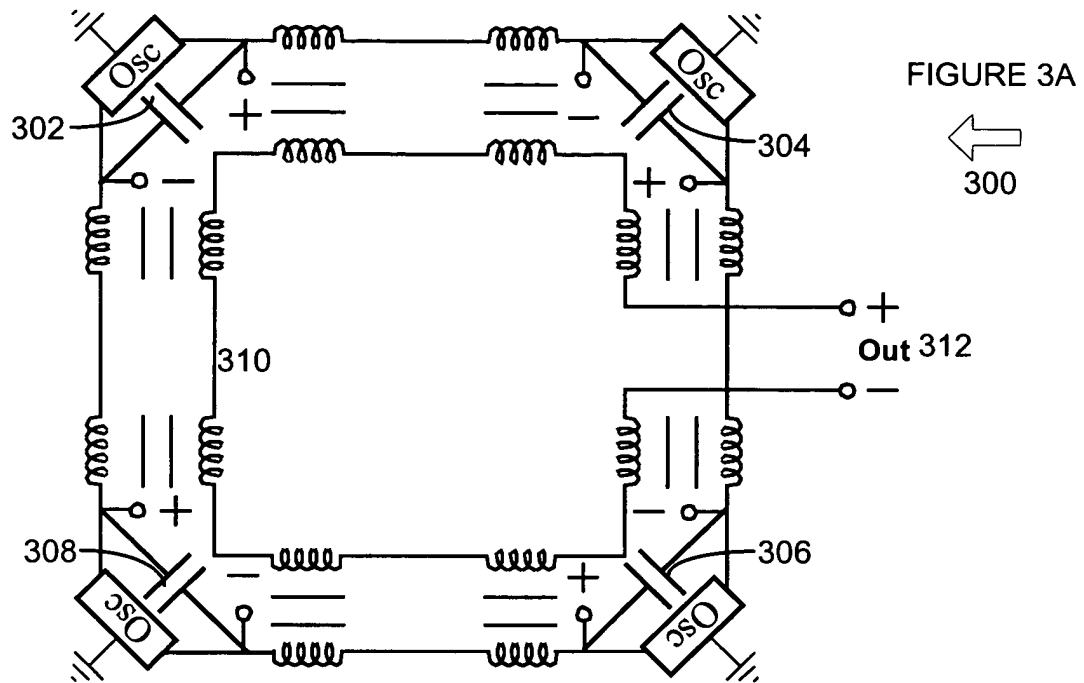


FIGURE 2

 200



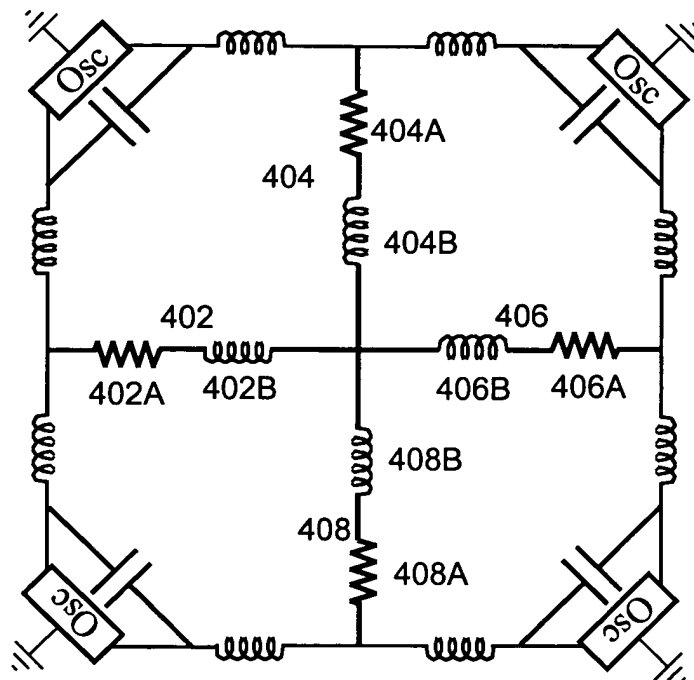


FIGURE 4A

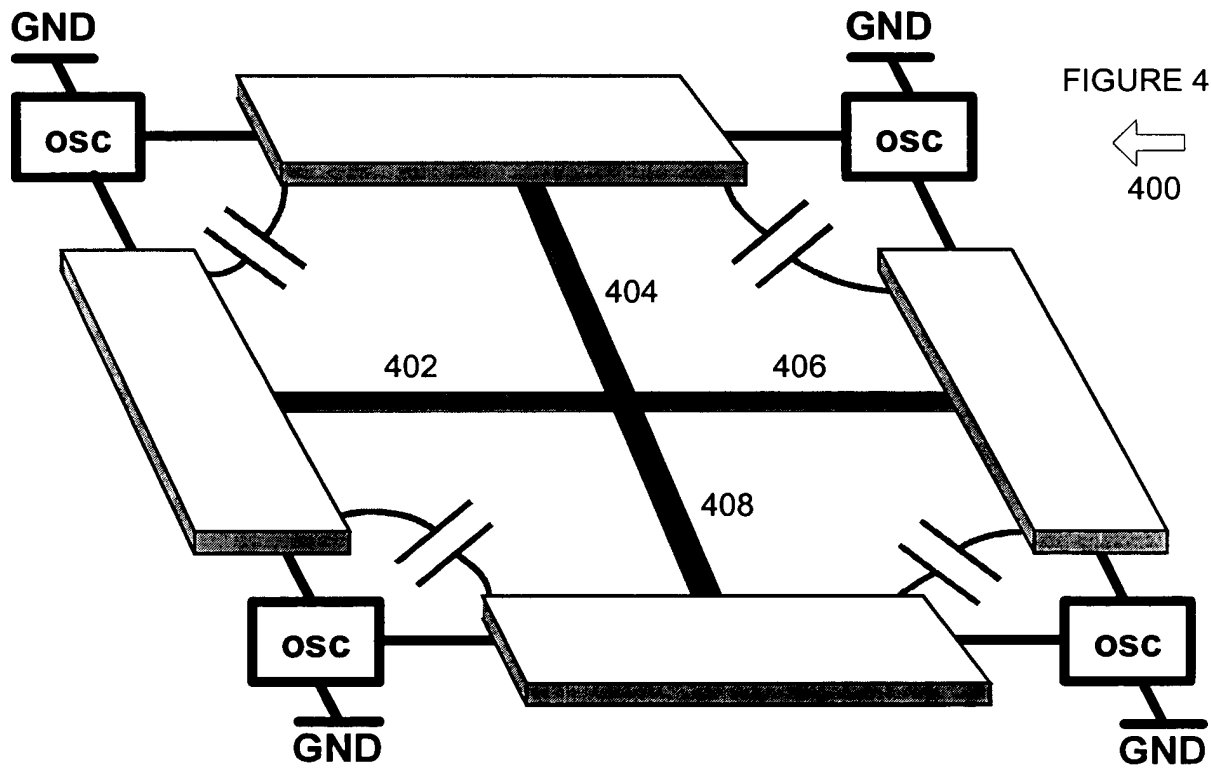


FIGURE 4B



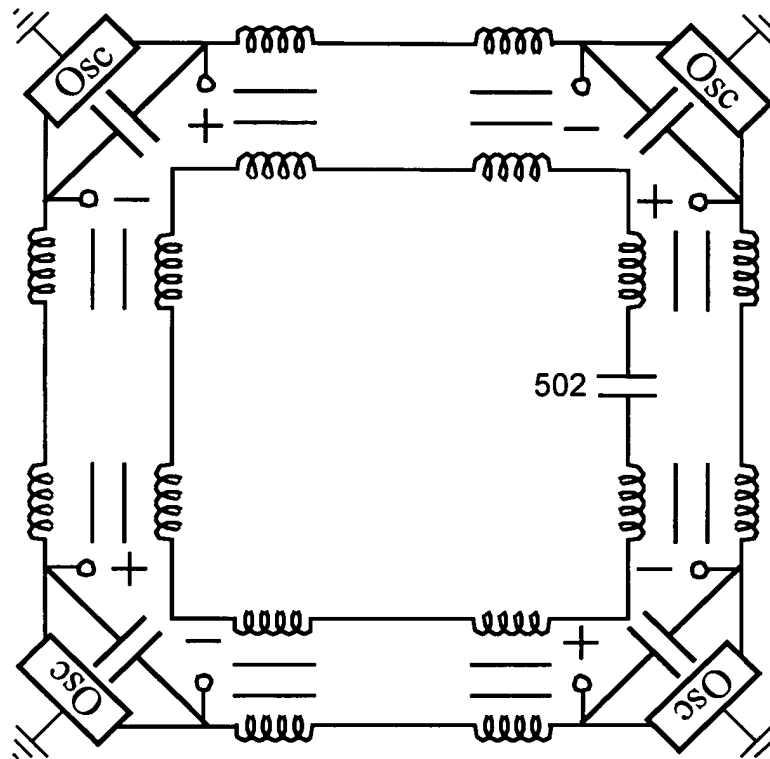


FIGURE 5A

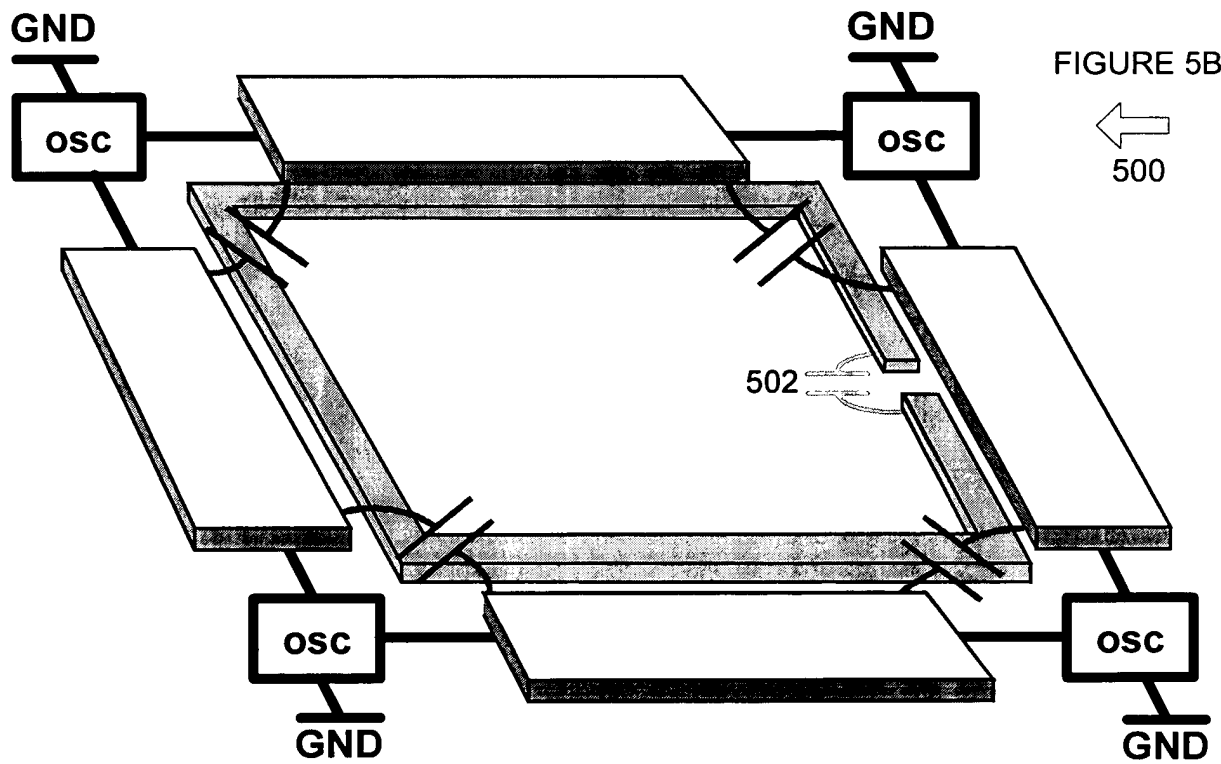
500

FIGURE 5B

500

Technology	SiGe IBM 7HP	SiGe IBM 7HP
Mimumum Channel Length	0.18 μm	0.18 μm
Output Frequency	5.33 GHz	5.36 GHz
Frequency Tuning	--	8.3%
Output Power	1 dBm	1 dBm
V_{DD}	1.4 V	1.8 V
I_{bias}	10 mA	12 mA
Phase Noise at 10 MHz Offset	-147.3 dBc/Hz	-142.2 dBc/Hz

FIGURE 6

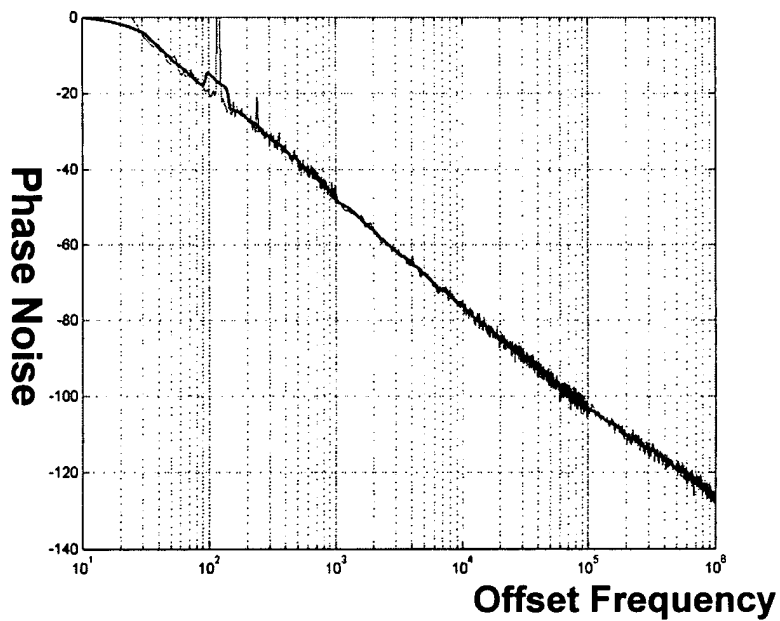
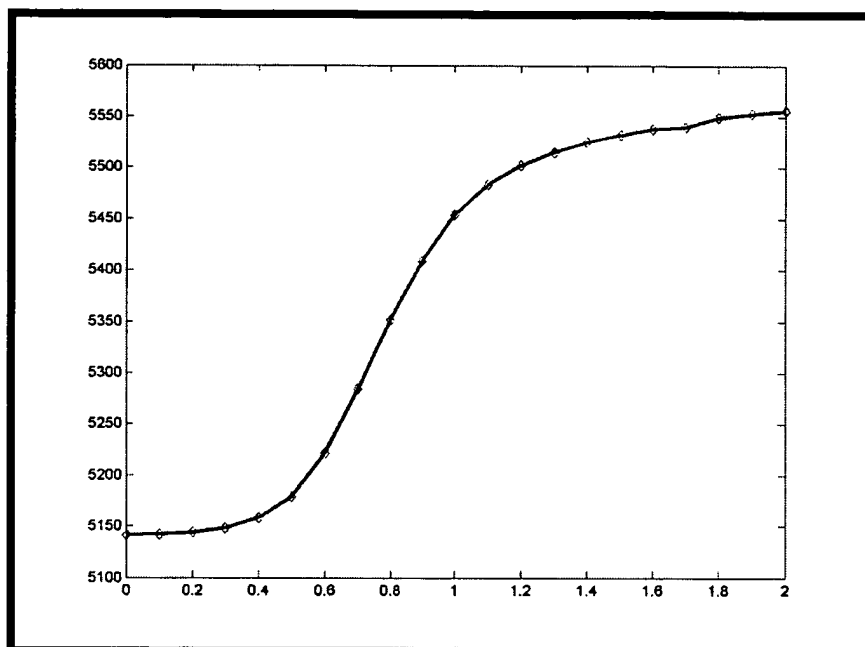
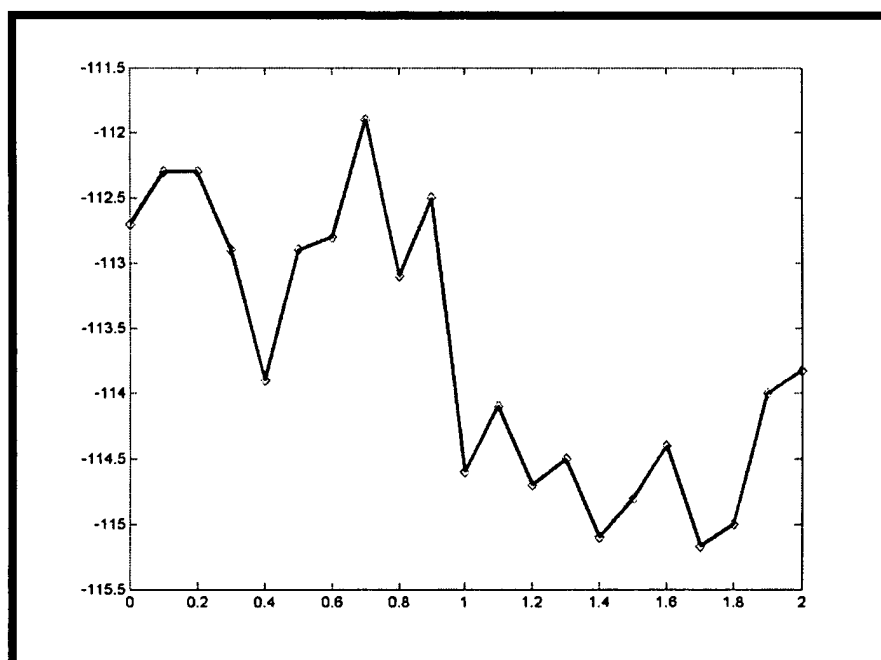


FIGURE 7



Voltage to Frequency
Transfer Function

FIGURE 8



Phase noise @600KHz offset
 $V_{dd}=1.8V$ and $I_{bias}=12mA$

FIGURE 9

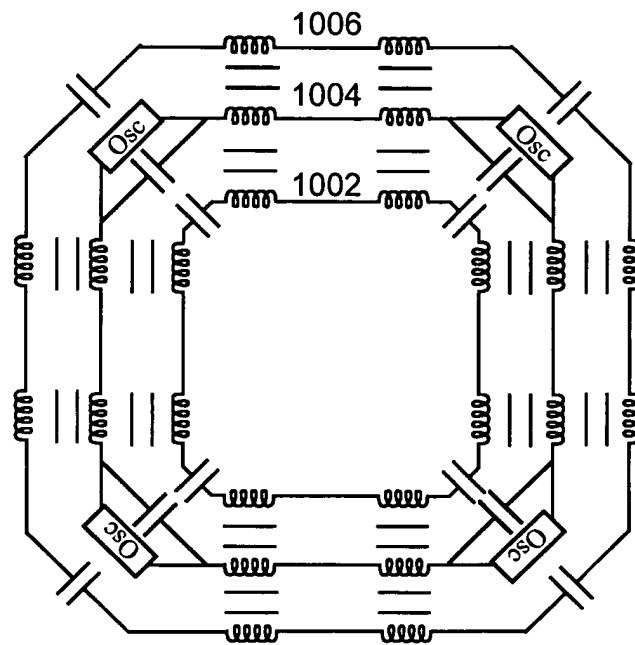


FIGURE 10

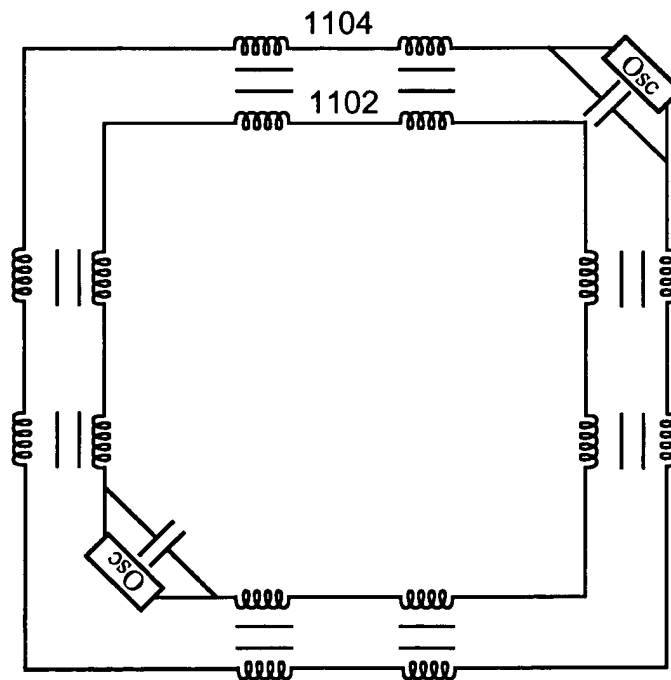

 1000

FIGURE 11

 1100

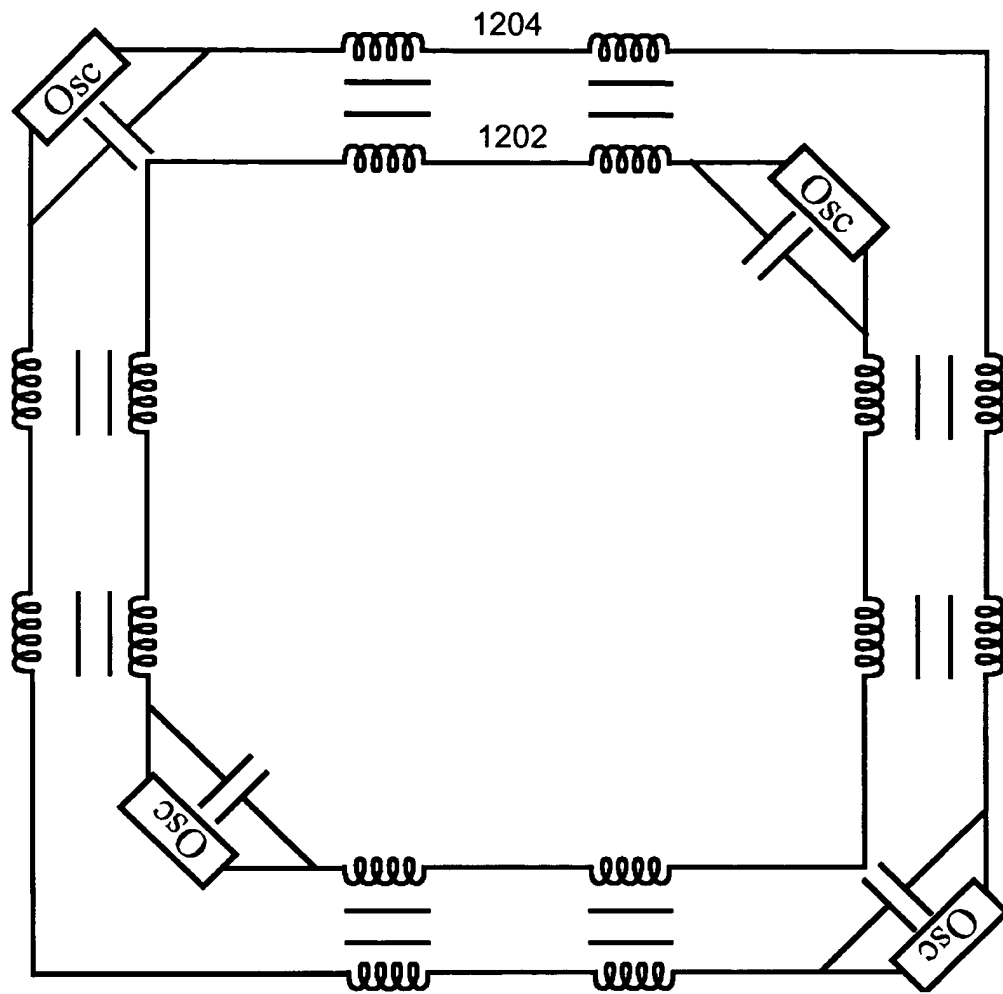


FIGURE 12

↑ 1200